

1 GAATTCCGGCCGCTCCGTTGGTTCCTC ATG GTG TCT TTT TGA AGAGGACCTGAGCCTTTACCCCAATATA 74
 1 M V S F * 5
 75 TCAAAAAACCCGGGCAACCGGCCAAAAAATTGCAAAAGCCTCTCGTAGGCACAAAAGACCTATTCTAGCCATCAACTTT 154
 155 GTATCCGACGCTGCCGTTTAGCTGCCGCTCTTGAAGTCAAGC ATG GCG ACT ACT GAG TCC TCG GCC CCG 223
 1 M A T T E S S A P 9
 224 GCG GCC ACC ACC CAG CCG GCC AGC ACC CCG CTG GCG AAC TCG TCG CTG TAC GTC GGT GAC 283
 10 A A T T Q P A S T P L A N S S L Y V G D 29
 284 CTG GAG AAG GAT GTC ACC GAG GCC CAG CTG TTC GAG CTC TTC TCC TCG GTT GGC CCT GTG 343
 30 L E K D V T E A Q L F E L F S S V G P V 49
 344 GCC TCC ATT CGC GTG TGC CGC GAT GCC GTC ACG CGC CGC TCG CTG GGC TAC GCC TAC GTC 403
 50 A S I R V C R D A V T R R S L G Y A Y V 69
 404 AAC TAC AAC AGC GCT CTG GAC CCC CAG GCT GCT GAC CGC GGC ATG GAG ACC CTG AAC TAC 463
 70 N Y N S A L D P Q A A D R A M E T L N Y 89
 464 CAT GTC GTG AAC GGC AAG CCT ATG CGC ATC ATG TGG TCG CAC CGC GAC CCT TCG GCC CGC 523
 90 H V V N G K P M R I M W S H R D P S A R 109
 524 AAG TCG GGC GTC GGC AAC ATC TTC ATC AAG AAC CTG GAC AAG ACC ATC GAC GCC AAG GCC 583
 110 K S G V G N I F I K N L D K T I D A K A 129
 584 CTG CAC GAC ACC TTC TCG GCC TTC GGC AAG ATT CTG TCC TGC AAG GTT GCC ACT GAC GCC 643
 130 L H D T F S A F G K I L S C K V A T D A 149
 644 AAC GGC GTG TCG AAG GGC TAC GGC TTC GTG CAC TTC GAG GAC CAG GCC GCT GCC GAT CGC 703
 150 N G V S K G Y G F V H F E D Q A A D R 169
 704 GCC ATT CAG ACC GTC AAC CAG AAG AAG ATT GAG GGC AAG ATC GTG TAC GTG GCC CCC TTC 763
 170 A I Q T V N Q K K I E G K I V Y V A P F 189

FIG. 1A

764	CAG	AAG	CGC	GCT	GAC	CGC	CCC	AGG	GCA	AGG	ACG	TTG	TAC	ACC	AAC	GTG	TTC	GTC	AAG	AAC	823
190	Q	K	R	A	D	R	P	R	A	R	T	L	Y	T	N	V	F	V	K	N	209
824	TTG	CCG	GCC	GAC	ATC	GGC	GAC	GAC	GAG	CTG	GGC	AAG	ATG	GCC	ACC	GAG	CAC	GGC	GAG	ATC	883
210	L	P	A	D	I	G	D	E	L	G	K	M	A	T	E	H	G	E	I		229
884	ACC	AGC	GCG	GTG	GTC	ATG	AAG	GAC	GAC	AAG	GGC	GGC	AGC	AAG	GGC	TTC	GGC	TTC	ATC	AAC	943
230	T	S	A	V	V	M	K	D	D	K	G	G	S	K	G	F	G	F	I	N	249
944	TTT	AAG	GAC	GCC	GAG	TCG	GCG	GCC	AAG	TGC	GTG	GAG	TAC	CTG	AAC	GAG	CGC	GAG	ATG	AGC	1003
250	F	K	D	A	E	S	A	A	K	C	V	E	Y	L	N	E	R	E	M	S	269
1004	GGC	AAG	ACC	CTG	TAC	GCC	GGC	CGC	GCC	CAG	AAG	AAG	ACC	GAG	CGC	GAG	GCG	ATG	CTG	CGC	1063
270	G	K	T	L	Y	A	G	R	A	Q	K	K	T	E	R	E	A	M	L	R	289
1064	CAG	AAG	GCC	GAG	GAG	AGC	AAG	CAG	GAG	CGT	TAC	CTG	AAG	TAC	CAG	AGC	ATG	AAC	CTG	TAC	1123
290	Q	K	A	E	E	S	K	Q	E	R	Y	L	K	Y	Q	S	M	N	L	Y	309
1124	GTC	AAG	AAC	CTG	TCC	GAC	GAG	GAG	GTC	GAC	GAC	GCC	CTG	CTG	CGT	GAG	CTG	TTC	GCC	AAC	1183
310	V	K	N	L	S	D	E	E	V	D	D	D	A	L	R	E	L	F	A	N	329
1184	TCT	GGC	ACC	ATC	ACC	TCG	TGC	AAG	GTC	ATG	AAG	GAC	GGC	AGC	GGC	AAG	TCC	AAG	GGC	TTC	1243
330	S	G	T	I	T	S	C	K	V	M	K	D	G	S	G	K	S	K	G	F	349
1244	GGC	TTT	GTG	TGC	TTT	ACC	AGC	CAC	GAC	GAG	GCC	ACC	CGG	CCG	CCC	GTG	ACC	GAG	ATG	AAC	1303
350	G	F	V	C	F	T	S	H	D	E	A	T	R	P	P	V	T	E	M	N	369
1304	GGC	AAG	ATG	GTC	AAG	GGC	AAG	CCC	CTG	TAC	GTG	GCC	CTG	GCG	CAG	CGC	AAG	GAC	GTG	CGC	1363
370	G	K	M	V	K	G	K	P	L	Y	V	A	L	A	Q	R	K	D	V	R	389
1364	CGT	GCC	ACC	CAG	CTG	GAG	GCC	AAC	ATG	CAG	GCG	CGC	ATG	GGC	ATG	GGC	GCC	ATG	AGC	CGC	1423
390	R	A	T	Q	L	E	A	N	M	Q	A	R	M	G	M	G	A	M	S	R	409

FIG. 1B

1424 CCG CCG AAC CCG ATG GCC GGC ATG AGC CCC TAC CCC GGC GCC ATG CCG TTC TTC GCT CCC 1483
410 P P N P M A G M S P Y P G A M P F F A P 429
1484 GGC CCC GGC ATG GCT GCT GGC CCG CGC GCT CCG GGC ATG ATG TAC CCG CCC ATG ATG 1543
430 G P G M A A G P R A P P G M M Y P P M M 449
1544 CCG CCG GGC ATG CCT GGC CCC GGC CGC GGC CCC ATG ATG CCG CCC CAG 1603
450 P P R G M P G P G R G P R G P M M P P Q 469
1604 ATG ATG GGT GGC CCC ATG ATG GGC CCC ATG GGC CGC GGT GGC GGC CGC 1663
470 M M G G P M M G P P M G P G R G R G G R 489
1664 GGC CCC TCC GGC CGC GGC CAG GGC CGC GGC AAC AAC GCC CCT GCC CAG CCC AAG CCC 1723
490 G P S G R G Q G R G N A P A Q Q P K P 509
1724 GCC GCT GAG CCG GCC GGC CCC GCC GGC AAC A A A A A A A A A A 1783
510 A A E P A A A P A A A A A A A A A A 529
1784 GCG GCG GAG CCG GAG GCC CCC GCC CAG CAG CCG CTG ACC GCC TCC GCG CTG GCC GCC 1843
530 A A E P E A A P A A Q Q P L T A S A L A A 549
1844 GCC GCG CCG GAG CAG CAG AAG ATG ATG ATC GGC GAG CGC CTG TAC CCG CAG GTG GCG GAG 1903
550 A A P E Q Q K M M I G E R L Y P Q V A E 569
1904 CTG CAG CCC GAC CTG GCT GGC AAG ATC ACC GGC ATG CTG CTG GAG ATG GAC AAC GCC GAG 1963
570 L Q P D L A G K I T G M L L E M D N A E 589
1964 CTT CTG ATG CTT CTG GAG TCG CAC GAG GCG CTG GTG TCC AAG GTG GAC GAG GCC ATC GCT 2023
590 L L M L L E S H E A L V S K V D E A I A 609
2024 GTG CTC AAG CAG CAC AAC GTG ATT GCC GAG AAC AAG GCT TAA AGCGCCTGCACGCTGTGCG 2088
610 V L K Q H N V I A E E N K A * 624

FIG. 1C

2089 GGCTGGTGGCGCGCGCGCGCGGCTGCTTGGCGCGCGCGCAGC ATG GGC GCG GAC GCG GTG TGG 2159
 1 M G A A D A V W 8
 2160 GAG CAG TGC TTG CTG CTT CTG GCC GCC GTG AAG CCG CGC ACT GGC GCG GAC GCG AGG 2219
 9 E Q C L L L A A V K P R R T G A D G R 28
 2220 CTG GCG TTG ACG CCG GCG CAC AAC ACA AAG TTG GTG GCG TGA AAGTCTCTGGCGGTGCTCCG 2284
 29 L A L T P A R H N T K L V A * 43
 2285 GACGGTTGTAAGTTTAAAGAACTGGCTTTTGGCCGGTGGCCCAAGCGCGGCTCTTTTCAGGCCAATCA 2364
 2365 CATCCGGCTGGAAAAATTCTTACCAAGCCAAACCCCTGCACCCAAAAATTTCCGGTTCCGAAAGAACACTCCCTTTT 2444
 2445 CCGGCAACGCGTCTTTTCAAGCCCAATCATTTCGGGTGGAAGAAA ATG TTA CCC GGA AAA GGC GGG AAG 2516
 1 M L P G K G G K 8
 2517 CCC CCT GCA CCC GGA CAA GTT ATT CGG GGT TTC GCC GGG AAT GAG CAA GCG TTC GGG CTG 2576
 9 P P A P G Q V I R G F A G N E Q A F G L 28
 2577 TTG GCC GTA TCG CGA ACG CTG TCG GGG TGT CAG GCG CCA GAA GGA AGG ATG ACG TTT TGG 2636
 29 L A V S R T L S G C Q A P E G R M T F W 48
 2637 TGA AGGGTGCAAACTGAGCACACGAGTTTGGCAATAGACGTGGAGAAAGTCCAGTCCGGGTGAGGGGATAGCGGA 2715
 49 * 49
 2716 ATCAAGGTGGGGTCCCTGGCGAGACGAGACGCTTCCTGTGTGTTTGTCTAGCCCTTGT ATG GCA CAA TCG CAC 2790
 1 M A Q S H 5
 2791 TGT TTT GAG CAG GCG ACT GTA AAG TGC CCG ACG CTA AAA AAG CCG CCG ATT CC 2846
 6 C F E Q A T V K C P T L K K R P R I 23

FIG. 1D

MNRWNLALTGLLLVAAPFTKHQFAHASDEYEDDEDDAPAAP

KDDDDVDVTVVTVKNWDETVKSKSFALVEFYAPWCGCHCKTLKPEYAKAATALKAAAPDA

LIAKVDAQTQESLAQFGVQGYPTLKWFDGELASDYNRPDADGIVGWVKKTGPPA

VTVEDADKLKSLEADAEEVVVGYFKALEGEIYDTFKSYAAKTEDVVFVQTT SADVAKA

AGLDAVDTVSVVKNFAGEDRATAVLATDIDTDSLTA FVKSEKMPPTIEFNQKNSDKIF

NSGINKQLILWTTADDLKADAEIMTVFREASKFKGQLVFVTVNNEGDPVTNFFG

LKGATSPVLLGFFMEKNKKFRMEGEFTADNVAKFAESVVDGTAQAVLKSEAIPEDPYE

DGVYKIVGKTVESVVLDETKDVLLEVYAPWCGCHCKKLEPIYKKLAKRFFKVDVSVIIAK

MDGTENEHPEIEVKGFPTILFYPA GSDRTPIVFEGGDRSLKSLTKFIKTNAKIPYELP
KKGSDGDEGTSDDKDKPASDKDEL

1 gagtacgttt acgccatgaa ccgttggaac cttcttgccc ttacctggg gctgctgctg
61 gtggcagcgc ccttcaccaa gcaccagttt gctcatgctt ccgatgagta tgaggacgac
121 gaggaggacg atgccccccg cgccccctaa gacgacgacg tcgacgttac tgtggtgacc
181 gtcaagaact gggatgagac cgtcaagaag tccaagtctg cgctgtgga gttctacgct
241 ccttggtgcg gccactgcaa gacctcaag cctgagtacg ctaaggctgc caccgccctg
301 aaggctgctg ctcccgatgc ccttatcgcc aaggctgacg ccaccaggga ggagtccctg
361 gcccagaagt tcggcgtgca gggtacccc accctcaagt ggctcgttga tggcagctg
421 gcttctgact acaacggccc ccgcgacgct gatggcatcg ttggctgggt gaagaaag
481 actggcccc ccgccgtgac cgttgaggac gccgacaagc tgaagtccct ggaggcggac
541 gctgaggctg ttgtcgtcgg ctacttcaag gccctggagg gcgagatcta cgacacctc
601 aagtcctacg ccgccaagac cgaggacgtg gtgttcgtgc agaccaccag cgccgacgtc

FIG. 2A

661 gccaaaggccg ccggccctgga cgcgctggac accgtgtccg tggtaagaa cttcgcgggt
721 gaggaccgcb ccaccgctt cctggccacg gacatcgaca ctgactccct gaccgcgttc
781 gtcaagtcgg agaagatgcc cccaccatt gatttcaacc agaagaactc tgacaagatc
841 ttcaaacgcb gcatcaacaa gcagctgatt ctgtggacca ccgccgacga cctgaaggcc
901 gacgccgaga tcatgactgt gtcccgcgag gccagcaaga agttcaaggg ccagctggtg
961 ttcgtgaccg tcaacaacga gggcgacggc gcggaccccg tcaccaactt cttcggcctc
1021 aaggcgcca cctcgctgt gctgctgggc ttcttcatgg agaaagaacaa gaagtctcgc
1081 atggaggcgb agttcacggc tgacaacgtg gctaagtctg ccgagagcgt ggtggacggc
1141 accgcgcagg cgtgctcaa gtcggaggcc atccccgagg accctatga ggaaggcgtc
1201 tacaagattg tgggcaagac cgtggagtct gtggttctgg acgagaccaa ggacgtgctg
1261 ctggagggtgt acgccccctg gtgcgggccac tgcaagaagc tggagcccat ctacaagaag
1321 ctggccaagc gctttaagaa ggtggattcc gtcatactg ccaagatgga tggcactgag
1381 aacgagcac ccgagatcga ggtcaagggc ttccctacca tctgttcta tccgcggc
1441 agcgaccga ccccatcgt gtctgagggc ggcgaccgct cgtcaagtc cctgaccaag
1501 tcatcaaga ccaacgcaa gatccgtac gactgcca agaagggtc cgacggcgac
1561 gagggcacct cggacgacaa ggacaaggccc gcgtccgaca aggacgagct gtaagcggtc
1621 atctgaacta cccaggttt ggagcgtctg cttgcgcgct tggcttga cactgtgcat
1681 ggaaggaggt taaggaggag acggagcacg gaggtcgcgc tgggttgggtg gcttggagca
1741 ccggcagcgc gtgatacgtc ctggcagcag caacggcgga gcggcgcat attggcgca
1801 gctggcgagc ggtgttgcgt ggagaggata tgcctgcggg ccggagggaag ggctaggggc
1861 agagatgaga gcgttacggg ctggcatgcg ggcgccccgtg cctctccctg cgggtgcagt
1921 cttgctagga gacgcacggt ttgcccagg ttggacgctg tccacagccc tgcgactgga
1981 agttttttag gccctgcggt ggtagtgggt ttggtacggt tgtgtgcata agatgaacaa
2041 cgtttctctc aagacgagac tactagtatg ctgacgggtgt gttgtatgtgg tggatggatt
2101 gtgccccgac catgaagagt gctgtgttgc ctcggcgctt ctgtcgccct ggatgtgcgt
2161 ggttccgaac gctggagtca tctgttgagg agcgagggtg ttgtcgggtc cgccggcac
2221 ggccgcgtga tgtccgagt gggtatgtcg gcgaggcaa ccgcagcgca gtagcgccg
2281 cagcggatcg agctagcgca ggatgatgag agccgggctt tgcgcgctg ggatcaggga
2341 ggagccaagg cggagtgcac gcgaggaaaa cagtgtgcgg caaagaacgg gctgcaagaa
2401 cgccttgcgc aaa

FIG. 2B

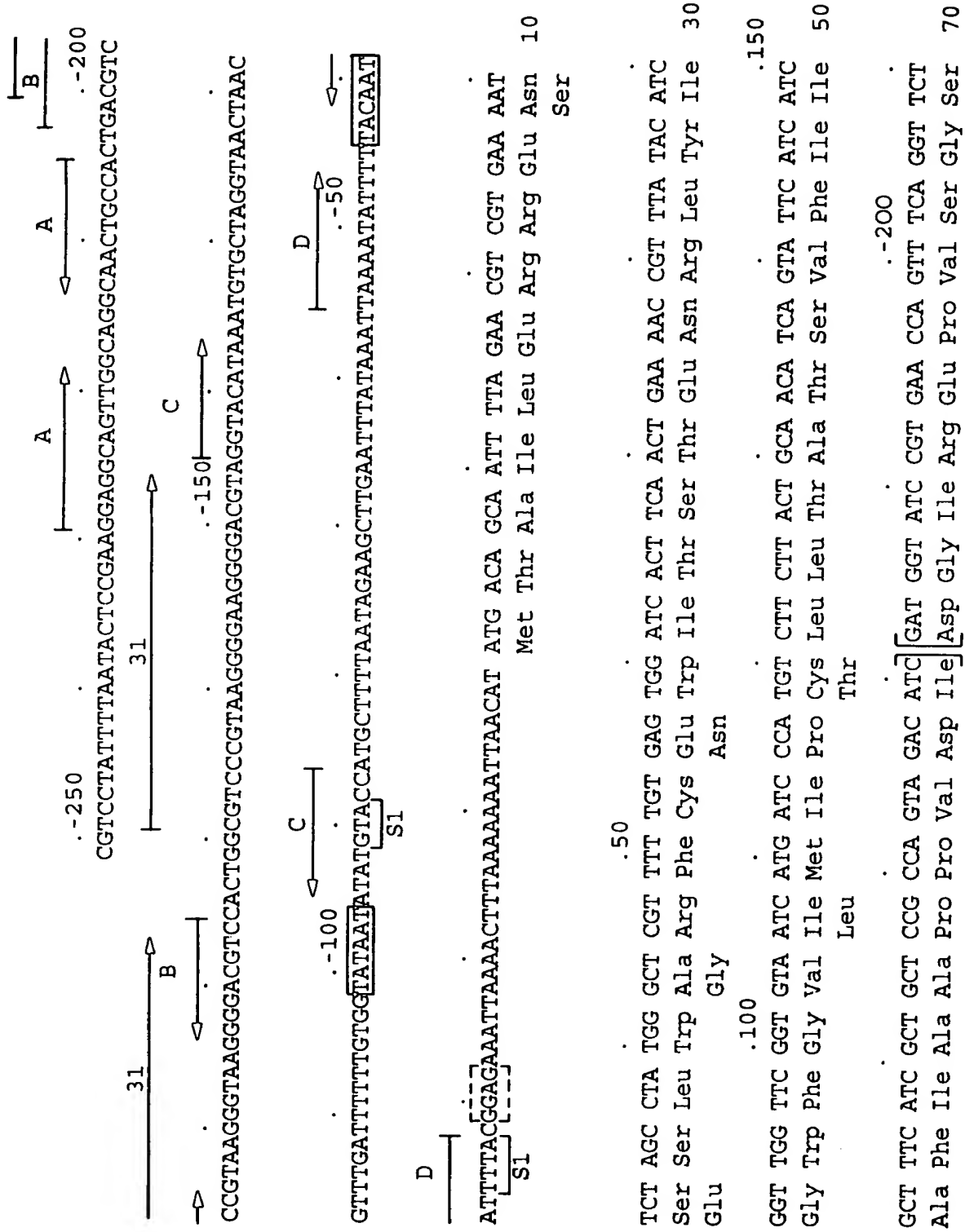


FIG. 3A

[illegible]

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.700
 GAA TCA GCT AAC GAA GGT TAC CGT TTC GGT CAA GAA GAA ACT TAC AAC ATT GTA GCT .750
 Glu Ser Ala Asn Glu Gly Tyr Arg Phe Gly Gln Glu Glu Thr Tyr Asn Ile Val Ala 250

 GCT CAT [GGT TAC TTT GGT CGT CTA ATC TTC CAA TAC GCT TCT TTC AAC AAC TCT CGT TCA
 Ala His [Gly Tyr Phe Gly Arg Leu Ile Phe Gln Tyr Ala Ser Phe Asn Ser Arg Ser 270
 .800

 TTA CAC TTC TTC TTA GCT GCT TGG CCG GTA ATC GGT ATT TGG TTC ACT GCT TTA GGT TTA
 Leu His Phe Phe Leu Ala Ala Trp Pro Val Ile Gly Ile Trp Phe Thr Ala Leu Gly Leu 290
 Val
 .850

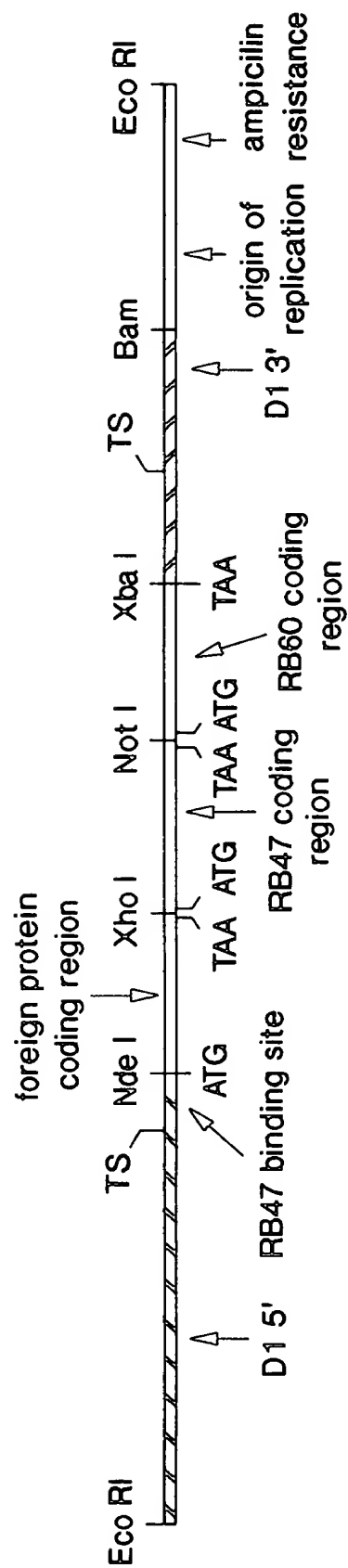
 TCA ACT ATG GCA TTC AAC TTA AAC GGT TTC AAC TTC AAC CAA TCA GTA GTA GAC TCA CAA
 Ser Thr Met Ala Phe Asn Leu Asn Gly Phe Asn Phe Asn Gln Ser Val Val Asp Ser Gln 310
 .900

 GGT CGT GTA CTA AAC ACT TGG GCA GAC ATC ATC AAC CGT GCT AAC TTA GGT ATG GAA GTA
 Gly Arg Val Leu Asn Thr Trp Ala Asp Ile Ile Asn Arg Ala Asn Leu Gly Met Glu Val 330
 Ile
 .950

 ATG CAC GAG CGT AAC GCT CAC AAC TTC CCT CTA GAC TTA GCT TCA ACT AAC TCT AGC TCA .1050
 Met His Glu Arg Asn Ala His Asn Phe Pro Leu Asp Leu Ala Ser Thr Asn Ser Ser Ser 350

 AAC AAC TAA TTT TTTTAAACTAAATAAATCTGGTTAACCATACCTAGTTTATTATTAGTTTATACACTTTT
 Asn Asn *Oc
 Thr Gly *Oc
 .1100
 Ala Ile Glu Ala Pro
 .1150
 CATATATATACTTAATAGCTACCATAGGCAGTTGGCAGGACGTCCC

FIG. 3C



TS = transcription start and transcription stop

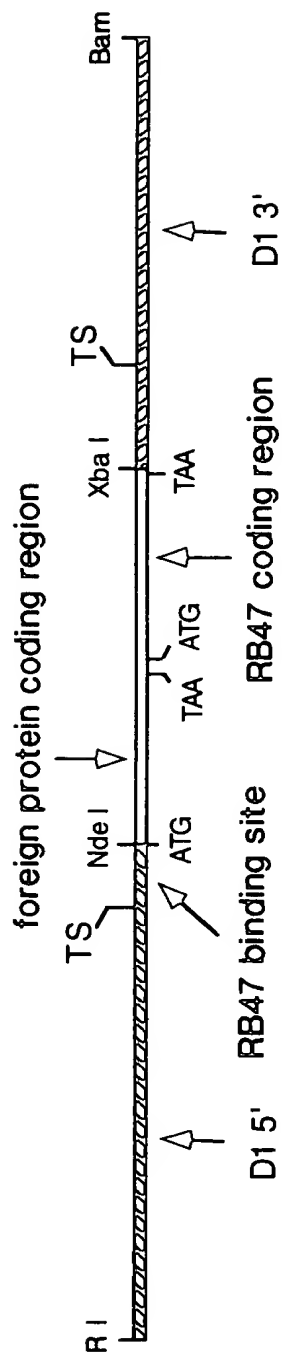
FIG. 4

1	ATG	GGC	CAT	CAT	CAT	CAT	CAT	CAT	CAT	CAC	AGC	AGC	GGC	CAT	ATC	GAA	GGT	CGT	60
1	M	G	H	H	H	H	H	H	H	H	S	S	G	H	I	E	G	R	20
61	CAT	ATG	GGC	ACT	ACT	GAG	TCC	TCG	GCC	CCG	ACC	ACC	CAG	CCG	GCC	AGC	ACC	CCG	120
21	H	M	A	T	T	E	S	S	A	P	A	T	T	Q	P	A	S	T	40
121	CTG	GGC	AAC	TCG	TCG	CTG	TAC	GTC	GGT	GAC	CTG	GAG	AAG	GAT	GTC	ACC	GAG	GCC	180
41	L	A	N	S	S	L	Y	V	G	D	L	E	K	D	V	T	E	A	60
181	TTC	GAG	CTC	TTC	TCC	TCG	GTT	GGC	CCT	GTG	GCC	TCC	ATT	CGC	GTG	TGC	CGC	GAT	240
61	F	E	L	F	S	S	V	G	P	V	A	S	I	R	V	C	R	D	80
241	ACG	CGC	CGC	TCG	CTG	GGC	TAC	GCC	TAC	GTC	AAC	TAC	AAC	AGC	AGC	GCT	CTG	GAC	300
81	T	R	R	S	L	G	Y	A	Y	V	N	Y	N	S	A	L	D	P	100
301	GCT	GAC	CGC	GCC	ATG	GAG	ACC	CTG	AAC	TAC	CAT	GTC	GTG	AAC	GGC	AAG	CCT	ATG	360
101	A	D	R	A	M	E	T	L	N	Y	H	V	V	N	G	K	P	M	120
361	ATG	TGG	TCG	CAC	CGC	GAC	CCT	TCG	GCC	CGC	AAG	TCG	GGC	GTC	GGC	AAC	ATC	TTC	420
121	M	W	S	H	R	D	P	S	A	R	K	S	G	V	G	N	I	F	140
421	AAC	CTG	GAC	AAG	ACC	ATC	GAC	GCC	AAG	GCC	CTG	CAC	GAC	ACC	TTC	TCG	GCC	TTC	480
141	N	L	D	K	T	I	D	A	K	A	L	H	D	T	F	S	A	F	160
481	ATT	CTG	TCC	TGC	AAG	GTT	GCC	ACT	GAC	GCC	AAC	GGC	GTG	TCG	AAG	GGC	TAC	GGC	540
161	I	L	S	C	K	V	A	T	D	A	N	G	V	S	K	G	Y	G	180
541	CAC	TTC	GAG	GAC	CAG	GCC	GCT	GCC	GAT	CGC	GCC	ATT	CAG	ACC	GTC	AAC	CAG	AAG	600
181	H	F	E	D	Q	A	A	A	D	R	A	I	Q	T	V	N	Q	K	200
601	GAG	GGC	AAG	ATC	GTG	TAC	GTG	GCC	CCC	TTC	CAG	AAG	CGC	GCT	GAC	CGC	CCC	AGG	660
201	E	G	K	I	V	Y	V	A	P	F	Q	K	R	A	D	R	P	A	220

FIG. 5A

661	ACG	TTG	TAC	ACC	AAC	GTG	TTC	GTC	AAG	AAC	TTG	CCG	GCC	GAC	ATC	GGC	GAC	GAC	GAG	CTG	720
221	T	L	Y	T	N	V	F	V	K	N	L	P	A	D	I	G	D	D	E	L	240
721	GGC	AAG	ATG	GCC	ACC	GAG	CAC	GGC	GAG	ATC	ACC	AGC	GGC	GTG	GTC	ATG	AAG	GAC	GAC	AAG	780
241	G	K	M	A	T	E	H	G	E	I	T	S	A	V	V	M	K	D	D	K	260
781	GGC	GGC	AGC	AAG	GGC	TTC	GGC	TTC	ATC	AAC	TTC	AAG	GAC	GCC	GAG	TCG	GGC	GCC	AAG	TGC	840
261	G	G	S	K	G	F	G	F	I	N	F	K	D	A	E	S	A	A	K	C	280
841	GTG	GAG	TAC	CTG	AAC	GAG	CGC	GAG	ATG	AGC	GGC	AAG	ACC	CTG	TAC	GCC	GGC	CGC	GCC	CAG	900
281	V	E	Y	L	N	E	R	E	M	S	G	K	T	L	Y	A	G	R	A	Q	300
901	AAG	AAG	ACC	GAG	CGC	GAG	GGC	ATG	CTG	CGC	CAG	AAG	GCC	GAG	GAG	AGC	AAG	CAG	GAG	CGT	960
301	K	K	T	E	R	E	A	M	L	R	Q	K	A	E	E	S	K	Q	E	R	320
961	TAC	CTG	AAG	TAC	CAG	AGC	ATG	AAC	CTG	TAC	GTC	AAG	AAC	CTG	TCC	GAC	GAG	GAG	GTC	GAC	1020
321	Y	L	K	Y	Q	S	M	N	L	Y	V	K	N	L	S	D	E	E	V	D	340
1021	GAC	GAC	GCC	CTG	CGT	GAG	CTG	TTC	GCC	AAC	TCT	GGC	ACC	ATC	ACC	TCG	TGC	AAG	GTC	ATG	1080
341	D	D	A	L	R	E	L	F	A	N	S	G	T	I	T	S	C	K	V	M	360
1081	AAG	GAC	GGC	AGC	GGC	AAG	TCC	AAG	GGC	TTC	GGC	TTC	GTG	TGC	TTC	ACC	AGC	CAC	GAC	GAG	1140
361	K	D	G	S	G	K	S	K	G	F	G	F	V	C	F	T	S	H	D	E	380
1141	GCC	ACC	CCG	CCG	CCC	GTG	ACC	GAG	ATG	AAC	GGC	AAG	ATG	GTC	AAG	GGC	AAG	CCC	CTG	TAC	1200
381	A	T	R	P	P	V	T	E	M	N	G	K	M	V	K	G	K	P	L	Y	400
1201	GTG	GCC	CTG	GGC	CAG	CGC	AAG	GAC	GTG	CGC	CGT	GCC	ACC	CAG	CTG	GAG	GCC	AAC	ATG	CAG	1260
401	V	A	L	A	Q	R	K	D	V	R	R	A	T	Q	L	E	A	N	M	Q	420
1261	GGC	CGC	ATG	TAA	GGATCC																1278
421	A	R	M	*																	424

FIG. 5B



TS = transcription start and transcription stop

FIG. 6

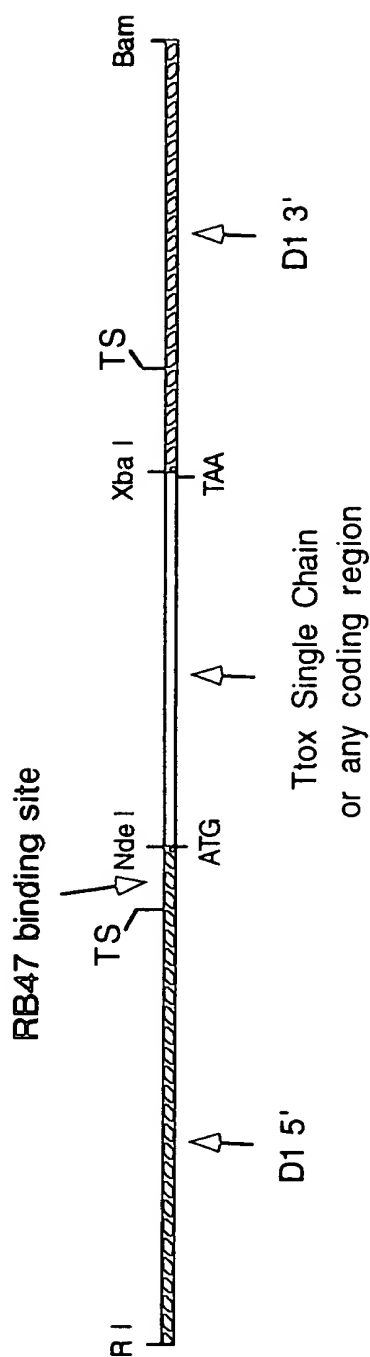
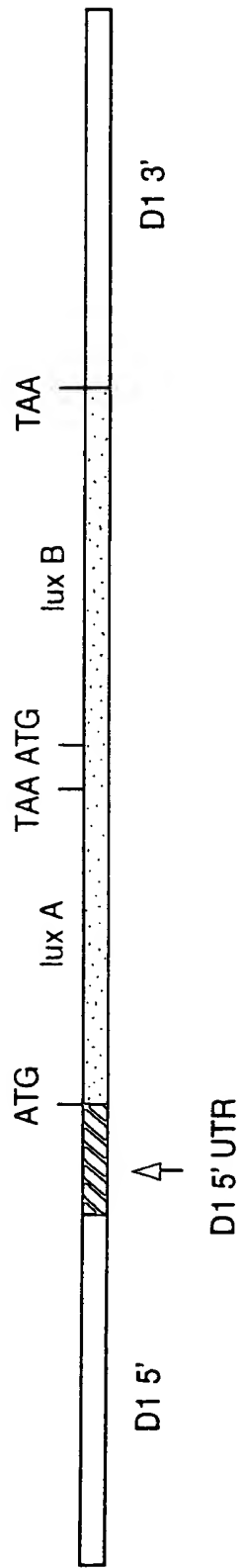


FIG. 7



FIG. 8



Bacterial luciferase A and B proteins expressed from a single mRNA containing the psbA 5' UTR with translational activator element.

FIG. 9

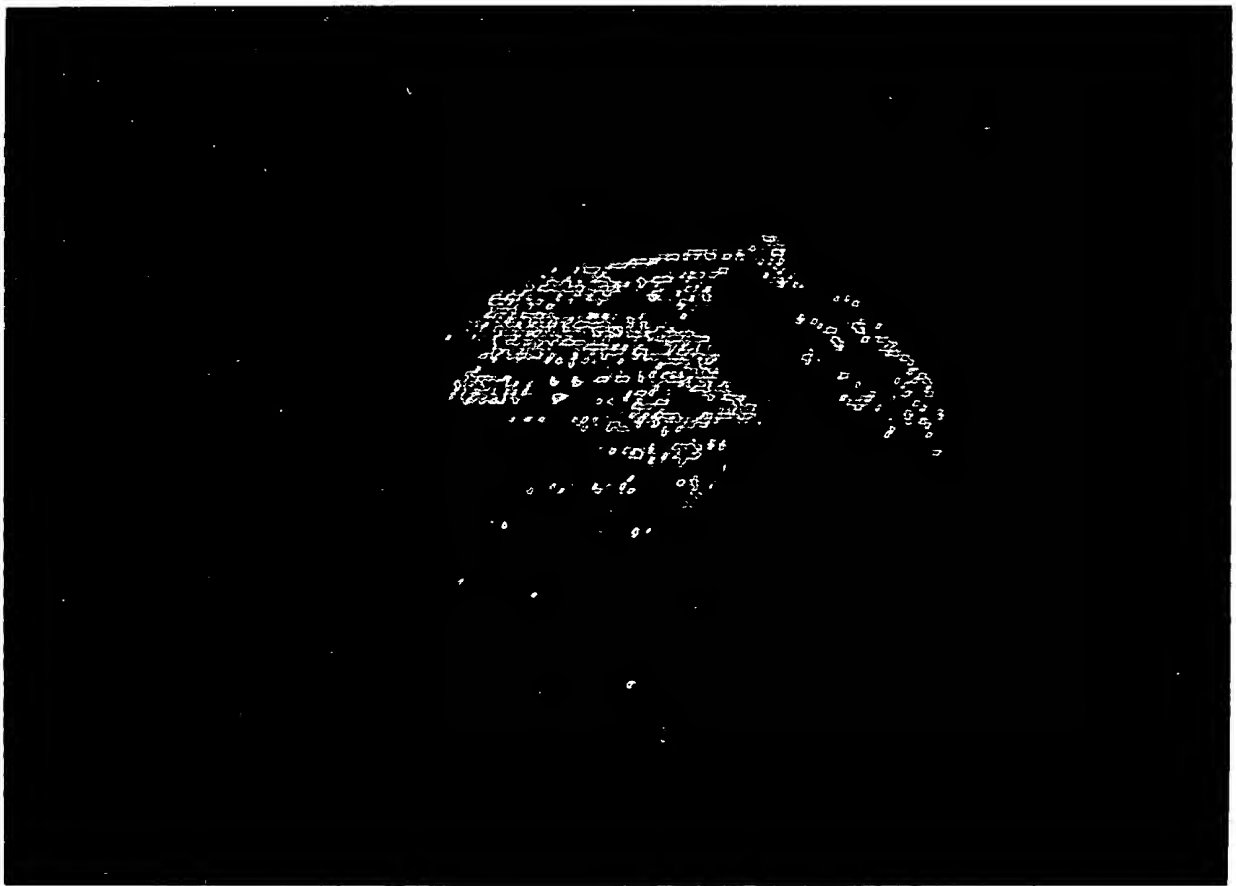


FIG. 10

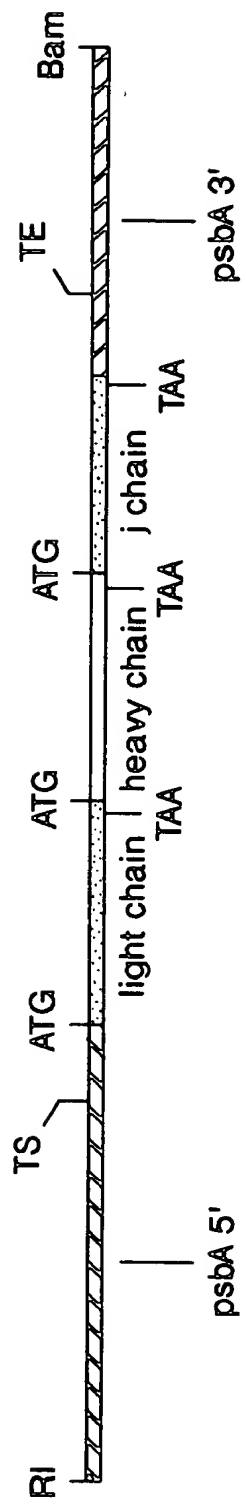


FIG. 11